

CLAIMS

Sub B1
1. A preparation in powder form for administration through mucosa, comprising a medicine of high molecular weight and a cationic polymer.

Sub
2. The preparation of claim 1, further comprising a viscous polymer.

3. The preparation of claim 1, wherein the cationic polymer is a copolymer of aminoalkylmethacrylate.

4. The preparation of claim 1, wherein the cationic polymer is polyvinyl acetal diethylaminoacetate.

5. The preparation of claim 1, wherein the cationic polymer is poly-L-arginine.

6. The preparation of claim 2, wherein the viscous polymer is hydroxypropylmethyl cellulose.

Sub
7. The preparation of claim 1, wherein the medicine of high molecular weight is selected from the group consisting of bioactive peptides and proteins, antibodies, vaccines, and antigens.

Sub B2
8. The preparation of claim 7, wherein the bioactive peptide is a granulocyte colony-stimulating factor.

9. The preparation of ~~any one of claims 1-8~~, which is a preparation for pernasal administration.

10. A pharmaceutical composition in powder form, comprising a medicine of high molecular weight and a cationic polymer.

11. The pharmaceutical composition of claim 10, wherein the medicine of high molecular weight is selected from the group consisting of bioactive peptides and proteins, antibodies, vaccines, and antigens.

12. The pharmaceutical composition of claim 11, wherein the medicine of high molecular weight is selected from the group consisting of insulin, erythropoietin, growth hormone, and influenza antigens.